

(5.3) Part D: Putting it all together!

Function & Describe the Transformations	List the Transformations	Vertex	Axis of Symmetry	Optimal Value/Max or Min
1) $2(x - 3)^2 - 1$				
2) $y = -(x + 3)^2 + 7$				
3) $y = 1/2(x - 8)^2 + 4$				
4) $y = -1/2(x - 6)^2 + 10$				

When applying several transformations, read the relation from **left to right**, and apply the transformations in that order.

Inside the brackets → shift left or right **opposite** direction as sign.

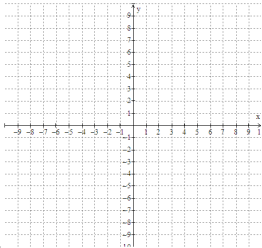
Outside the brackets → shift up or down **same** direction as sign.

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1. Graph using transformations:

$$y = \frac{1}{2}(x + 5)^2 + 2$$

List the transformations in order:

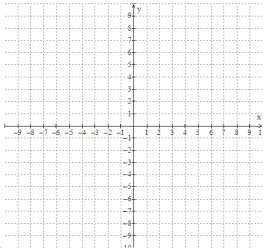


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2. Graph using transformations:

$$y = -2(x + 3)^2 + 1$$

List the transformations in order:



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Homework

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